

Datasheet for ABIN7553644
DGKD Protein (AA 1-1214) (His tag)



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Overview

Quantity:	1 mg
Target:	DGKD
Protein Characteristics:	AA 1-1214
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DGKD protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat DGKD Protein expressed in mammalian cells.
Sequence:	MAAAAGAPPP GPPQPPPPPP PEESDSEPE AEPGSPQKLI RKVSTSGQIR QKTIIEGML TKQNSFQRS KRRYFKLRGR TLYYAKTAKS IIFDEVDLTD ASVAESSTKN VNNSFTVITP CRKLILCADN RKEMEDWIAA LKTVQNREHF EPTQYSMDHF SGMHNWYACS HARPTYCNVC REALSGVTSH GLSCEVCKFK AHKRC AVRAT NNCKWTTLAS IGKDIIEDAD GIAMPHQWLE GNLPVSAKCT VCDKTCGSLV RLQDWRC LWC KAMVHTSCKE SLLTKCPLGL CKVSVIPPTA LNSIDSDGFW KASCPPSCTS PLLVFVNSKS GDNQGVKFLR RFKQLLNPAQ VFDLMNGGPH LGLRLFQKFD TFRILVCGGD GSVGWVLSEI DSLNLHKQCQ LGVLPLGTGN DLARVLGWGS ACDDDTQLPQ ILEKLERAST KMLDRWSVMA YEAKLPRQAS SSTVTEDFSE DSEVQQILFY EDSVAHLSK ILTSDQHSVV ISSAKVLCET VKDFVARVGK AYEKT TESSE ESEVMAKKCS VLKEKLD SLL KTLDDESQAS SSLPNPPPTI AEEAEDGDGS GSICGSTGDR LVASACPARP QIFRPREQLM LRANSLKKAI RQIIHTEKA VDEQNAQTQE QEGFVLGLSE SEEKMDHRVC

PPLSHSESFG VPKGRSQRKV SKSPCEKLIS KGSLSLGSSA SLPPQPGSRD GLPALNTKIL
YPNVRAGMSG SLPGGSVISR LLINADPFNS EPETLEYYTE KCVMMNNYFGI GLDAKISLDF
NNKRDEHPEK CRSRTKNMMW YGVLGTKELL HRTYKNLEQK VLLECDGRPI PLPSLQGIIV
LNIPSYAGGT NFWGGTKEDD TFAAPSFDDK ILEVAVVFGS MQMAVSRVIR LQHHRIAQCR
TVKISILGDE GVPVQVDGEA WVQPPGYIRI VHKNRAQTLT RDRAFESTLK SWEDKQKCEL
PRPPSCSLHP EMLSEEEATQ MDQFGQAAGV LIHSIREIAQ SHRDMEQELA HAVNASSKSM
DRVYGKPRTT EGLNCSFVLE MVNNFRALRS ETELLLSGKM ALQLDPPQKE QLGSALAEMD
RQLRRLADTP WLCQSAEPGD EESVMLDLAK RSRSGKFRLV TKFKKEKNNK NKEAHSSLGA
PVHLWGTEEV AAWLEHLSLC EYKDIFTRHD IRGSELLHLE RRDLDKDLGVT KVGHMKRILC
GIKELSRAP AVEA **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	DGKD
Alternative Name:	DGKD (DGKD Products)
Background:	Diacylglycerol kinase delta (DAG kinase delta) (EC 2.7.1.107) (130 kDa diacylglycerol kinase)

Target Details

(Diglyceride kinase delta) (DGK-delta),FUNCTION: Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12200442, PubMed:23949095). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (Probable). By controlling the levels of diacylglycerol, regulates for instance the PKC and EGF receptor signaling pathways and plays a crucial role during development (By similarity). May also regulate clathrin-dependent endocytosis (PubMed:17880279).

{ECO:0000250|UniProtKB:E9PUQ8, ECO:0000269|PubMed:12200442, ECO:0000269|PubMed:17880279, ECO:0000269|PubMed:23949095, ECO:0000305}.

Molecular Weight: 134.5 kDa

UniProt: [Q16760](#)

Pathways: [EGFR Signaling Pathway](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months